Abington
Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                      | <u>Ехр</u>            | <u>Obs</u>   | SIR    |                    | <u>Exp</u>    | <u>Obs</u> | SIR    |
|----------------------|-----------------------|--------------|--------|--------------------|---------------|------------|--------|
| Bladder, Urinary     |                       |              |        | Melanoma of Skin   |               |            |        |
| Male                 | 7.99                  | 10           | 125    | Male               | 5.39          | 3          | NC*    |
| Female               | 3.49                  | 5            | 143    | Female             | 4.47          | 3          | NC*    |
| Total                | 11.48                 | 15           | 131    | Total              | 9.86          | 6          | 61     |
| Brain and Other Cen  | <u>tral Nervous S</u> | <u>ystem</u> |        | Multiple Myeloma   |               |            |        |
| Male                 | 2.90                  | 2            | NC*    | Male               | 1.54          | 4          | NC*    |
| Female               | 2.36                  | 1            | NC*    | Female             | 1.53          | 2          | NC*    |
| Total                | 5.26                  | 3            | NC*    | Total              | 3.07          | 6          | 195    |
| <u>Breast</u>        |                       |              |        | Non-Hodgkin's Ly   | mphoma_       |            |        |
| Male                 | 0.52                  | 0            | NC*    | Male               | 6.78          | 12         | 177    |
| Female               | 55.90                 | 51           | 91     | Female             | 6.44          | 1          | NC*    |
| Total                | 56.42                 | 51           | 90     | Total              | 13.22         | 13         | 98     |
| Cervix Uteri         |                       |              |        | Oral Cavity and Ph | <u>narynx</u> |            |        |
|                      |                       |              |        | Male               | 5.58          | 7          | 125    |
| Female               | 3.48                  | 2            | NC*    | Female             | 2.74          | 5          | 182    |
|                      |                       |              |        | Total              | 8.33          | 12         | 144    |
| Colon / Rectum       |                       |              |        | <u>Ovary</u>       |               |            |        |
| Male                 | 20.19                 | 23           | 114    |                    |               |            |        |
| Female               | 21.90                 | 26           | 119    | Female             | 6.60          | 5          | 76     |
| Total                | 42.09                 | 49           | 116    |                    |               |            |        |
| <u>Esophagus</u>     |                       |              |        | <u>Pancreas</u>    |               |            |        |
| Male                 | 3.03                  | 0            | NC*    | Male               | 3.23          | 2          | NC*    |
| Female               | 1.12                  | 3            | NC*    | Female             | 3.77          | 3          | NC*    |
| Total                | 4.16                  | 3            | NC*    | Total              | 7.00          | 5          | 71     |
| Hodgkin's Disease    |                       |              |        | <u>Prostate</u>    |               |            |        |
| Male                 | 1.46                  | 0            | NC*    | Male               | 49.50         | 63         | 127    |
| Female               | 1.19                  | 1            | NC*    |                    |               |            |        |
| Total                | 2.65                  | 1            | NC*    |                    |               |            |        |
| Kidney and Renal Pe  | <u>elvis</u>          |              |        | <u>Stomach</u>     |               |            |        |
| Male                 | 4.94                  | 4            | NC*    | Male               | 3.42          | 2          | NC*    |
| Female               | 3.23                  | 3            | NC*    | Female             | 2.38          | 4          | NC*    |
| Total                | 8.17                  | 7            | 86     | Total              | 5.80          | 6          | 103    |
| <u>Larynx</u>        |                       |              |        | <u>Testis</u>      |               |            |        |
| Male                 | 2.85                  | 6            | 211    | Male               | 2.26          | 2          | NC*    |
| Female               | 0.79                  | 1            | NC*    |                    |               |            |        |
| Total                | 3.64                  | 7            | 192    |                    |               |            |        |
| <u>Leukemia</u>      |                       |              |        | <u>Thyroid</u>     |               |            |        |
| Male                 | 3.71                  | 6            | 162    | Male               | 1.16          | 1          | NC*    |
| Female               | 3.16                  | 0            | NC*    | Female             | 3.16          | 5          | 158    |
| Total                | 6.87                  | 6            | 87     | Total              | 4.32          | 6          | 139    |
| Liver and Intrahepat | <u>ic Bile Ducts</u>  |              |        | Uteri, Corpus and  | Uterus, NOS   |            |        |
| Male                 | 1.81                  | 0            | NC*    |                    |               |            |        |
| Female               | 0.80                  | 0            | NC*    | Female             | 10.61         | 12         | 113    |
| Total                | 2.61                  | 0            | NC*    |                    |               |            |        |
| Lung and Bronchus    |                       |              |        | All Sites / Types  |               |            |        |
| Male                 | 26.22                 | 39           | 149 #+ | Male               | 165.90        | 197        | 119 #+ |
| Female               | 22.06                 | 21           | 95     | Female             | 174.00        | 168        | 97     |
| Total                | 48.28                 | 60           | 124    | Total              | 339.90        | 365        | 107    |

**Obs** = observed case count

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the **p**<0.05 level
- ~ indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level
- ^ indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

Acton
Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                    | <u>Exp</u>       | <u>Obs</u>   | <u>SIR</u> |                    | <u>Exp</u>    | <u>Obs</u> | <u>SIR</u> |
|--------------------|------------------|--------------|------------|--------------------|---------------|------------|------------|
| Bladder, Urinary   |                  |              |            | Melanoma of Skin   |               |            |            |
| Male               | 9.61             | 6            | 62         | Male               | 7.08          | 4          | NC*        |
| Female             | 3.39             | 4            | NC*        | Female             | 5.52          | 5          | 91         |
| Total              | 13.00            | 10           | 77         | Total              | 12.60         | 9          | 71         |
| Brain and Other Co | entral Nervous S | <u>ystem</u> |            | Multiple Myeloma   |               |            |            |
| Male               | 3.84             | 2            | NC*        | Male               | 1.91          | 0          | NC*        |
| Female             | 2.87             | 4            | NC*        | Female             | 1.67          | 2          | NC*        |
| Total              | 6.72             | 6            | 89         | Total              | 3.58          | 2          | NC*        |
| <u>Breast</u>      |                  |              |            | Non-Hodgkin's Ly   | <u>mphoma</u> |            |            |
| Male               | 0.66             | 0            | NC*        | Male               | 8.73          | 11         | 126        |
| Female             | 69.19            | 85           | 123        | Female             | 6.99          | 9          | 129        |
| Total              | 69.85            | 85           | 122        | Total              | 15.73         | 20         | 127        |
| Cervix Uteri       |                  |              |            | Oral Cavity and Ph | <u>iarynx</u> |            |            |
|                    |                  |              |            | Male               | 7.61          | 0          | NC*        |
| Female             | 4.62             | 7            | 151        | Female             | 3.19          | 2          | NC*        |
|                    |                  |              |            | Total              | 10.80         | 2          | NC*        |
| Colon / Rectum     |                  |              |            | <u>Ovary</u>       |               |            |            |
| Male               | 24.52            | 26           | 106        |                    |               |            |            |
| Female             | 20.96            | 20           | 95         | Female             | 8.26          | 9          | 109        |
| Total              | 45.48            | 46           | 101        |                    |               |            |            |
| <u>Esophagus</u>   |                  |              |            | <u>Pancreas</u>    |               |            |            |
| Male               | 3.99             | 5            | 125        | Male               | 4.10          | 3          | NC*        |
| Female             | 1.06             | 2            | NC*        | Female             | 3.69          | 1          | NC*        |
| Total              | 5.05             | 7            | 139        | Total              | 7.79          | 4          | NC*        |
| Hodgkin's Disease  |                  |              |            | <u>Prostate</u>    |               |            |            |
| Male               | 1.93             | 3            | NC*        | Male               | 63.52         | 53         | 83         |
| Female             | 1.50             | 0            | NC*        |                    |               |            |            |
| Total              | 3.43             | 3            | NC*        |                    |               |            |            |
| Kidney and Renal   |                  |              |            | <u>Stomach</u>     |               |            |            |
| Male               | 6.49             | 6            | 92         | Male               | 4.20          | 4          | NC*        |
| Female             | 3.71             | 2            | NC*        | Female             | 2.27          | 2          | NC*        |
| Total              | 10.20            | 8            | 78         | Total              | 6.47          | 6          | 93         |
| <u>Larynx</u>      |                  |              |            | <u>Testis</u>      |               |            |            |
| Male               | 3.84             | 1            | NC*        | Male               | 2.98          | 2          | NC*        |
| Female             | 1.00             | 0            | NC*        |                    |               |            |            |
| Total              | 4.84             | 1            | NC*        |                    |               |            |            |
| <u>Leukemia</u>    |                  |              |            | <u>Thyroid</u>     |               |            |            |

| Ma            | le 4           | 68           | 4 | NC*   | Male                 | 1.60       | 4   | NC*   |
|---------------|----------------|--------------|---|-------|----------------------|------------|-----|-------|
| Fema          | le 3           | 52           | 5 | 142   | Female               | 4.21       | 6   | 142   |
| Tot           | al 8           | 20           | 9 | 110   | Total                | 5.81       | 10  | 172   |
| Liver and Int | rahepatic Bile | <u>Ducts</u> |   |       | Uteri, Corpus and Ut | terus, NOS |     |       |
| Ma            | le 2           | 38           | 3 | NC*   |                      |            |     |       |
| Fema          | le 0           | 82           | 1 | NC*   | Female               | 13.21      | 13  | 98    |
| Tot           | al 3           | 19           | 4 | NC*   |                      |            |     |       |
| Lung and Br   | <u>onchus</u>  |              |   |       | All Sites / Types    |            |     |       |
| Ma            | le 33          | 22           | 9 | 27 ^- | Male                 | 211.05     | 159 | 75 ^- |
| Fema          | le 25          | 16 20        | 0 | 79    | Female               | 200.09     | 208 | 104   |
| Tot           | al 58          | 38 29        | 9 | 50 ^- | Total                | 411.14     | 367 | 89 #- |

**Obs** = observed case count

- $^{\star}$  = SIR and statistical significance not calculated when Obs < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- ~ indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level

Acushnet
Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                   | <u>Ехр</u>            | <u>Obs</u>       | <u>SIR</u> |                        | <u>Exp</u>       | <u>Obs</u> | <u>SIR</u> |
|-------------------|-----------------------|------------------|------------|------------------------|------------------|------------|------------|
| Bladder, Urinary  |                       |                  |            | Melanoma of S          | <u>kin</u>       |            |            |
| Male              | 8.02                  | 9                | 112        | Male                   | 4.95             | 2          | NC*        |
| Female            | 2.82                  | 5                | 177        | Female                 | 3.54             | 1          | NC*        |
| Total             | 10.84                 | 14               | 129        | Total                  | 8.49             | 3          | NC*        |
| Brain and Other ( | <u>Central Nervou</u> | <u>us System</u> |            | <u>Multiple Myelor</u> | <u>ma</u>        |            |            |
| Male              | 2.51                  | 0                | NC*        | Male                   | 1.52             | 1          | NC*        |
| Female            | 1.89                  | 0                | NC*        | Female                 | 1.29             | 2          | NC*        |
| Total             | 4.40                  | 0                | NC*        | Total                  | 2.81             | 3          | NC*        |
| <u>Breast</u>     |                       |                  |            | <u>Non-Hodgkin's</u>   | <u>Lymphoma</u>  |            |            |
| Male              | 0.51                  | 0                | NC*        | Male                   | 6.18             | 7          | 113        |
| Female            | 47.00                 | 36               | 77         | Female                 | 5.24             | 6          | 115        |
| Total             | 47.51                 | 36               | 76         | Total                  | 11.42            | 13         | 114        |
| Cervix Uteri      |                       |                  |            | Oral Cavity and        | <u>l Pharynx</u> |            |            |
|                   |                       |                  |            | Male                   | 5.23             | 2          | NC*        |
| Female            | 2.69                  | 1                | NC*        | Female                 | 2.29             | 1          | NC*        |
|                   |                       |                  |            | Total                  | 7.52             | 3          | NC*        |
| Colon / Rectum    |                       |                  |            | <u>Ovary</u>           |                  |            |            |
| Male              | 20.20                 | 27               | 134        |                        |                  |            |            |
| Female            | 17.59                 | 15               | 85         | Female                 | 5.48             | 5          | 91         |
| Total             | 37.79                 | 42               | 111        |                        |                  |            |            |
| <u>Esophagus</u>  |                       |                  |            | <u>Pancreas</u>        |                  |            |            |
| Male              | 2.97                  | 3                | NC*        | Male                   | 3.19             | 3          | NC*        |
| Female            | 0.91                  | 1                | NC*        | Female                 | 3.10             | 5          | 161        |
| Total             | 3.88                  | 4                | NC*        | Total                  | 6.29             | 8          | 127        |
| Hodgkin's Diseas  | <u>se</u>             |                  |            | <u>Prostate</u>        |                  |            |            |
| Male              | 1.08                  | 0                | NC*        | Male                   | 49.77            | 42         | 84         |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

| Female           | 0.84              | 2  | NC* |                   |               |     |     |
|------------------|-------------------|----|-----|-------------------|---------------|-----|-----|
| Total            | 1.91              | 2  | NC* |                   |               |     |     |
| Kidney and Ren   | al Pelvis         |    |     | <b>Stomach</b>    |               |     |     |
| Male             | 4.70              | 4  | NC* | Male              | 3.37          | 0   | NC* |
| Female           | 2.75              | 1  | NC* | Female            | 1.87          | 2   | NC* |
| Total            | 7.45              | 5  | 67  | Total             | 5.24          | 2   | NC* |
| <u>Larynx</u>    |                   |    |     | <u>Testis</u>     |               |     |     |
| Male             | 2.75              | 6  | 218 | Male              | 1.54          | 0   | NC* |
| Female           | 0.71              | 0  | NC* |                   |               |     |     |
| Total            | 3.46              | 6  | 173 |                   |               |     |     |
| <u>Leukemia</u>  |                   |    |     | <u>Thyroid</u>    |               |     |     |
| Male             | 3.35              | 2  | NC* | Male              | 0.95          | 0   | NC* |
| Female           | 2.44              | 3  | NC* | Female            | 2.34          | 1   | NC* |
| Total            | 5.79              | 5  | 86  | Total             | 3.30          | 1   | NC* |
| Liver and Intrah | epatic Bile Ducts |    |     | Uteri, Corpus and | l Uterus, NOS |     |     |
| Male             | 1.73              | 0  | NC* |                   |               |     |     |
| Female           | 0.66              | 2  | NC* | Female            | 9.18          | 8   | 87  |
| Total            | 2.39              | 2  | NC* |                   |               |     |     |
| Lung and Brond   | <u>chus</u>       |    |     | All Sites / Types |               |     |     |
| Male             | 26.10             | 26 | 100 | Male              | 161.27        | 149 | 92  |
| Female           | 19.30             | 13 | 67  | Female            | 144.04        | 124 | 86  |
| Total            | 45.40             | 39 | 86  | Total             | 305.31        | 273 | 89  |

**Obs** = observed case count

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the **p**≤0.05 level
- $\sim$  indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level

Adams
Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                     | <u>Exp</u>      | <u>Obs</u>   | <u>SIR</u> |                    | <u>Exp</u>   | <u>Obs</u> | <u>SIR</u> |
|---------------------|-----------------|--------------|------------|--------------------|--------------|------------|------------|
| Bladder, Urinary    |                 |              |            | Melanoma of Skin   |              |            |            |
| Male                | 8.20            | 6            | 73         | Male               | 4.47         | 1          | NC*        |
| Female              | 3.54            | 1            | NC*        | Female             | 3.55         | 5          | 141        |
| Total               | 11.74           | 7            | 60         | Total              | 8.01         | 6          | 75         |
| Brain and Other Cen | itral Nervous S | <u>ystem</u> |            | Multiple Myeloma   |              |            |            |
| Male                | 2.17            | 2            | NC*        | Male               | 1.49         | 0          | NC*        |
| Female              | 1.92            | 1            | NC*        | Female             | 1.48         | 0          | NC*        |
| Total               | 4.09            | 3            | NC*        | Total              | 2.98         | 0          | NC*        |
| <u>Breast</u>       |                 |              |            | Non-Hodgkin's Ly   | mphoma       |            |            |
| Male                | 0.50            | 0            | NC*        | Male               | 5.73         | 4          | NC*        |
| Female              | 47.30           | 41           | 87         | Female             | 6.00         | 6          | 100        |
| Total               | 47.80           | 41           | 86         | Total              | 11.73        | 10         | 85         |
| Cervix Uteri        |                 |              |            | Oral Cavity and Ph | <u>arynx</u> |            |            |
|                     |                 |              |            | Male               | 4.48         | 5          | 112        |
| Female              | 2.43            | 9            | 370 ~+     | Female             | 2.46         | 7          | 284 #+     |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

|                     |                |    |       | Total             | 6.94          | 12  | 173   |
|---------------------|----------------|----|-------|-------------------|---------------|-----|-------|
| Colon / Rectum      |                |    |       | <u>Ovary</u>      |               |     |       |
| Male                | 20.31          | 25 | 123   |                   |               |     |       |
| Female              | 22.41          | 21 | 94    | Female            | 5.42          | 7   | 129   |
| Total               | 42.72          | 46 | 108   |                   |               |     |       |
| <u>Esophagus</u>    |                |    |       | <u>Pancreas</u>   |               |     |       |
| Male                | 2.70           | 6  | 222   | Male              | 3.06          | 3   | NC*   |
| Female              | 1.16           | 1  | NC*   | Female            | 3.84          | 2   | NC*   |
| Total               | 3.87           | 7  | 181   | Total             | 6.90          | 5   | 72    |
| Hodgkin's Disease   |                |    |       | <u>Prostate</u>   |               |     |       |
| Male                | 0.89           | 0  | NC*   | Male              | 46.21         | 36  | 78    |
| Female              | 0.80           | 2  | NC*   |                   |               |     |       |
| Total               | 1.69           | 2  | NC*   |                   |               |     |       |
| Kidney and Renal P  | <u>elvis</u>   |    |       | <b>Stomach</b>    |               |     |       |
| Male                | 4.24           | 3  | NC*   | Male              | 3.38          | 2   | NC*   |
| Female              | 2.98           | 1  | NC*   | Female            | 2.40          | 1   | NC*   |
| Total               | 7.22           | 4  | NC*   | Total             | 5.78          | 3   | NC*   |
| <u>Larynx</u>       |                |    |       | <u>Testis</u>     |               |     |       |
| Male                | 2.40           | 1  | NC*   | Male              | 1.24          | 3   | NC*   |
| Female              | 0.70           | 1  | NC*   |                   |               |     |       |
| Total               | 3.10           | 2  | NC*   |                   |               |     |       |
| <u>Leukemia</u>     |                |    |       | <u>Thyroid</u>    |               |     |       |
| Male                | 3.18           | 2  | NC*   | Male              | 0.76          | 1   | NC*   |
| Female              | 2.72           | 4  | NC*   | Female            | 2.09          | 1   | NC*   |
| Total               | 5.90           | 6  | 102   | Total             | 2.85          | 2   | NC*   |
| Liver and Intrahepa | tic Bile Ducts |    |       | Uteri, Corpus and | l Uterus, NOS |     |       |
| Male                | 1.57           | 2  | NC*   |                   |               |     |       |
| Female              | 0.79           | 0  | NC*   | Female            | 9.20          | 14  | 152   |
| Total               | 2.35           | 2  | NC*   |                   |               |     |       |
| Lung and Bronchus   | <u>s</u>       |    |       | All Sites / Types |               |     |       |
| Male                | 24.68          | 12 | 49 ~- | Male              | 152.08        | 123 | 81 #- |
| Female              | 21.09          | 15 | 71    | Female            | 156.40        | 149 | 95    |
| Total               | 45.77          | 27 | 59 ~- | Total             | 308.48        | 272 | 88 #- |

**Obs** = observed case count

SIR = standardized incidence ratio [ Obs / Exp ) X 100 ]

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- $\sim$  indicates statistical significance at the  $p{\le}0.01$  level, as well as at the  $p{\le}0.05$  level
- ^ indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

## **Agawam**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                  | <u>Ехр</u> | <u>Obs</u> | <u>SIR</u> |                  | <u>Exp</u> | <u>Obs</u> | <u>SIR</u> |
|------------------|------------|------------|------------|------------------|------------|------------|------------|
| Bladder, Urinary |            |            |            | Melanoma of Skin |            |            |            |
| Male             | 19.53      | 15         | 77         | Male             | 11.93      | 11         | 92         |
| Female           | 7.96       | 2          | NC*        | Female           | 9.53       | 6          | 63         |
| Total            | 27.50      | 17         | 62 #-      | Total            | 21.46      | 17         | 79         |

| Brain and Other Co | entral Nervous S | <u>ystem</u> |     | Multiple Myeloma  |               |                    |       |
|--------------------|------------------|--------------|-----|-------------------|---------------|--------------------|-------|
| Male               | 6.09             | 7            | 115 | Male              | 3.65          | 5                  | 137   |
| Female             | 5.00             | 6            | 120 | Female            | 3.46          | 5                  | 145   |
| Total              | 11.09            | 13           | 117 | Total             | 7.10          | 10                 | 141   |
| <u>Breast</u>      |                  |              |     | Non-Hodgkin's Ly  | ymphoma       |                    |       |
| Male               | 1.24             | 1            | NC* | Male              | 15.11         | 10                 | 66    |
| Female             | 122.24           | 128          | 105 | Female            | 14.29         | 8                  | 56    |
| Total              | 123.47           | 129          | 104 | Total             | 29.40         | 18                 | 61 #- |
| Cervix Uteri       |                  |              |     | Oral Cavity and P | <u>harynx</u> |                    |       |
|                    |                  |              |     | Male              | 12.26         | 10                 | 82    |
| Female             | 7.20             | 11           | 153 | Female            | 6.08          | 6                  | 99    |
|                    |                  |              |     | Total             | 18.35         | 16                 | 87    |
| Colon / Rectum     |                  |              |     | <u>Ovary</u>      |               |                    |       |
| Male               | 48.86            | 47           | 96  | -                 |               |                    |       |
| Female             | 49.92            | 62           | 124 | Female            | 14.29         | 11                 | 77    |
| Total              | 98.77            | 109          | 110 |                   |               |                    |       |
| <u>Esophagus</u>   |                  |              |     | <u>Pancreas</u>   |               |                    |       |
| Male               | 6.98             | 8            | 115 | Male              | 7.64          | 6                  | 78    |
| Female             | 2.58             | 2            | NC* | Female            | 8.65          | 6                  | 69    |
| Total              | 9.56             | 10           | 105 | Total             | 16.30         | 12                 | 74    |
| Hodgkin's Disease  |                  |              |     | <u>Prostate</u>   |               |                    |       |
| Male               | 2.81             | 5            | 178 | Male              | 116.14        | 87                 | 75 ~- |
| Female             | 2.38             | 1            | NC* |                   |               |                    |       |
| Total              | 5.18             | 6            | 116 |                   |               |                    |       |
| Kidney and Renal I |                  |              |     | Stomach Stomach   |               |                    |       |
| Male               | <br>11.10        | 6            | 54  | Male              | 8.22          | 13                 | 158   |
| Female             | 7.21             | 9            | 125 | Female            | 5.40          | 5                  | 93    |
| Total              | 18.31            | 15           | 82  | Total             | 13.63         | 18                 | 132   |
| <u>Larynx</u>      |                  |              |     | <u>Testis</u>     |               |                    |       |
| Male               | 6.39             | 6            | 94  | <br>Male          | 4.17          | 5                  | 120   |
| Female             | 1.77             | 1            | NC* |                   |               |                    |       |
| Total              | 8.16             | 7            | 86  |                   |               |                    |       |
| <u>Leukemia</u>    |                  |              |     | <u>Thyroid</u>    |               |                    |       |
| Male               | 8.25             | 7            | 85  | Male              | 2.33          | 1                  | NC*   |
| Female             | 6.76             | 5            | 74  | Female            | 6.39          | 5                  | 78    |
| Total              | 15.01            | 12           | 80  | Total             | 8.72          | 6                  | 69    |
| Liver and Intrahep | atic Bile Ducts  |              |     | Uteri, Corpus and | l Uterus, NOS |                    |       |
| Male               | 4.09             | 3            | NC* | <del></del>       | <u> </u>      |                    |       |
| Female             | 1.81             | 1            | NC* | Female            | 23.42         | 20                 | 85    |
| Total              | 5.90             | 4            | NC* |                   |               |                    |       |
| Lung and Bronchu   |                  | •            | -   | All Sites / Types |               |                    |       |
| Male               | 61.55            | 49           | 80  | Male              | 384.60        | 322                | 84 ~- |
| Female             | 49.89            | 47           | 94  | Female            | 384.72        | 374                | 97    |
| Total              | 111.44           | 96           | 86  | Total             | 769.32        | 696                | 90 ~- |
|                    |                  | • •          |     |                   |               | - · · <del>-</del> |       |

**Obs** = observed case count

<sup>\* =</sup> **SIR** and statistical significance not calculated when **Obs** < 5

<sup>+</sup> indicates number of observed cases is statistically significantly higher than the expected number of cases

<sup>-</sup> indicates number of observed cases is statistically significantly lower than the expected number of cases

<sup>#</sup> indicates statistical significance at the  $p \le 0.05$  level

- $\sim$  indicates statistical significance at the  $p{\le}0.01$  level, as well as at the  $p{\le}0.05$  level
- ^ indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

Alford
Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                         | <u>Ехр</u>    | <u>Obs</u>    | <u>SIR</u> |                     | <u>Exp</u>    | <u>Obs</u> | <u>SIR</u> |
|-------------------------|---------------|---------------|------------|---------------------|---------------|------------|------------|
| Bladder, Urinary        |               |               |            | Melanoma of Skin    |               |            |            |
| Male                    | 0.56          | 0             | NC*        | Male                | 0.29          | 0          | NC*        |
| Female                  | 0.14          | 0             | NC*        | Female              | 0.16          | 0          | NC*        |
| Total                   | 0.70          | 0             | NC*        | Total               | 0.45          | 0          | NC*        |
| Brain and Other Centr   | ral Nervous S | <u>system</u> |            | Multiple Myeloma    |               |            |            |
| Male                    | 0.13          | 0             | NC*        | Male                | 0.10          | 0          | NC*        |
| Female                  | 0.09          | 0             | NC*        | Female              | 0.07          | 0          | NC*        |
| Total                   | 0.21          | 0             | NC*        | Total               | 0.17          | 0          | NC*        |
| <u>Breast</u>           |               |               |            | Non-Hodgkin's Lyn   | <u>nphoma</u> |            |            |
| Male                    | 0.03          | 1             | NC*        | Male                | 0.37          | 0          | NC*        |
| Female                  | 2.23          | 0             | NC*        | Female              | 0.25          | 0          | NC*        |
| Total                   | 2.26          | 1             | NC*        | Total               | 0.62          | 0          | NC*        |
| Cervix Uteri            |               |               |            | Oral Cavity and Pha | <u>arynx</u>  |            |            |
|                         |               |               |            | Male                | 0.30          | 0          | NC*        |
| Female                  | 0.11          | 0             | NC*        | Female              | 0.11          | 1          | NC*        |
|                         |               |               |            | Total               | 0.41          | 1          | NC*        |
| Colon / Rectum          |               |               |            | <u>Ovary</u>        |               |            |            |
| Male                    | 1.35          | 0             | NC*        |                     |               |            |            |
| Female                  | 0.90          | 0             | NC*        | Female              | 0.25          | 0          | NC*        |
| Total                   | 2.25          | 0             | NC*        |                     |               |            |            |
| <b>Esophagus</b>        |               |               |            | <u>Pancreas</u>     |               |            |            |
| Male                    | 0.18          | 0             | NC*        | Male                | 0.21          | 0          | NC*        |
| Female                  | 0.05          | 0             | NC*        | Female              | 0.15          | 0          | NC*        |
| Total                   | 0.23          | 0             | NC*        | Total               | 0.36          | 0          | NC*        |
| Hodgkin's Disease       |               |               |            | <u>Prostate</u>     |               |            |            |
| Male                    | 0.04          | 0             | NC*        | Male                | 2.89          | 1          | NC*        |
| Female                  | 0.03          | 0             | NC*        |                     |               |            |            |
| Total                   | 0.07          | 0             | NC*        |                     |               |            |            |
| Kidney and Renal Pel    |               |               |            | <u>Stomach</u>      |               |            |            |
| Male                    | 0.28          | 0             | NC*        | Male                | 0.24          | 0          | NC*        |
| Female                  | 0.13          | 0             | NC*        | Female              | 0.10          | 0          | NC*        |
| Total                   | 0.41          | 0             | NC*        | Total               | 0.33          | 0          | NC*        |
| <u>Larynx</u>           |               |               |            | <u>Testis</u>       |               |            |            |
| Male                    | 0.16          | 0             | NC*        | Male                | 0.04          | 0          | NC*        |
| Female                  | 0.03          | 0             | NC*        |                     |               |            |            |
| Total                   | 0.19          | 0             | NC*        |                     |               |            |            |
| <u>Leukemia</u>         |               |               |            | <u>Thyroid</u>      |               |            |            |
| Male                    | 0.20          | 0             | NC*        | Male                | 0.04          | 0          | NC*        |
| Female                  | 0.12          | 0             | NC*        | Female              | 0.09          | 0          | NC*        |
| Total                   | 0.32          | 0             | NC*        | Total               | 0.13          | 0          | NC*        |
| Liver and Intrahepation |               | ŭ             | · · · ·    | Uteri, Corpus and L |               | · ·        |            |
| Male                    | 0.10          | 0             | NC*        |                     | · · · · · ·   |            |            |
| Female                  | 0.03          | 0             | NC*        | Female              | 0.44          | 0          | NC*        |
| Total                   | 0.13          | 0             | NC*        | · Smalo             | 2             | J          |            |
| Lung and Bronchus       | -             | -             |            | All Sites / Types   |               |            |            |
|                         |               |               |            |                     |               |            |            |

| Male   | 1.56 | 2 | NC* | Male   | 9.75  | 4 | NC*   |
|--------|------|---|-----|--------|-------|---|-------|
| Female | 0.95 | 1 | NC* | Female | 6.94  | 2 | NC*   |
| Total  | 2.51 | 3 | NC* | Total  | 16.69 | 6 | 36 ~- |

**Obs** = observed case count

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- ~ indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level
- ^ indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

**Amesbury**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                     | <u>Exp</u>      | <u>Obs</u>   | SIR    |                    | <u>Exp</u>    | <u>Obs</u> | <u>SIR</u> |
|---------------------|-----------------|--------------|--------|--------------------|---------------|------------|------------|
| Bladder, Urinary    |                 |              |        | Melanoma of Skin   |               |            |            |
| Male                | 7.71            | 14           | 182    | Male               | 5.28          | 6          | 114        |
| Female              | 3.47            | 3            | NC*    | Female             | 4.53          | 3          | NC*        |
| Total               | 11.18           | 17           | 152    | Total              | 9.80          | 9          | 92         |
| Brain and Other Cer | ntral Nervous S | <u>ystem</u> |        | Multiple Myeloma   |               |            |            |
| Male                | 2.89            | 2            | NC*    | Male               | 1.47          | 2          | NC*        |
| Female              | 2.42            | 1            | NC*    | Female             | 1.51          | 2          | NC*        |
| Total               | 5.31            | 3            | NC*    | Total              | 2.98          | 4          | NC*        |
| <u>Breast</u>       |                 |              |        | Non-Hodgkin's Ly   | mphoma        |            |            |
| Male                | 0.51            | 0            | NC*    | Male               | 6.70          | 9          | 134        |
| Female              | 55.35           | 51           | 92     | Female             | 6.45          | 6          | 93         |
| Total               | 55.86           | 51           | 91     | Total              | 13.15         | 15         | 114        |
| Cervix Uteri        |                 |              |        | Oral Cavity and Ph | <u>iarynx</u> |            |            |
|                     |                 |              |        | Male               | 5.40          | 6          | 111        |
| Female              | 3.59            | 5            | 139    | Female             | 2.72          | 3          | NC*        |
|                     |                 |              |        | Total              | 8.12          | 9          | 111        |
| Colon / Rectum      |                 |              |        | <u>Ovary</u>       |               |            |            |
| Male                | 19.43           | 26           | 134    |                    |               |            |            |
| Female              | 21.72           | 29           | 134    | Female             | 6.59          | 4          | NC*        |
| Total               | 41.15           | 55           | 134 #+ |                    |               |            |            |
| <u>Esophagus</u>    |                 |              |        | <u>Pancreas</u>    |               |            |            |
| Male                | 2.91            | 4            | NC*    | Male               | 3.12          | 5          | 160        |
| Female              | 1.12            | 2            | NC*    | Female             | 3.76          | 6          | 160        |
| Total               | 4.03            | 6            | 149    | Total              | 6.88          | 11         | 160        |
| Hodgkin's Disease   |                 |              |        | <u>Prostate</u>    |               |            |            |
| Male                | 1.53            | 1            | NC*    | Male               | 47.06         | 43         | 91         |
| Female              | 1.29            | 1            | NC*    |                    |               |            |            |
| Total               | 2.82            | 2            | NC*    |                    |               |            |            |
| Kidney and Renal P  | <u>elvis</u>    |              |        | <b>Stomach</b>     |               |            |            |
| Male                | 4.76            | 6            | 126    | Male               | 3.32          | 6          | 181        |
| Female              | 3.22            | 9            | 279 #+ | Female             | 2.37          | 2          | NC*        |
| Total               | 7.98            | 15           | 188 #+ | Total              | 5.69          | 8          | 141        |
| <u>Larynx</u>       |                 |              |        | <u>Testis</u>      |               |            |            |
| Male                | 2.72            | 2            | NC*    | Male               | 2.40          | 2          | NC*        |

| Female              | 0.78           | 2  | NC* |                   |             |     |        |
|---------------------|----------------|----|-----|-------------------|-------------|-----|--------|
| Total               | 3.50           | 4  | NC* |                   |             |     |        |
| <u>Leukemia</u>     |                |    |     | <u>Thyroid</u>    |             |     |        |
| Male                | 3.69           | 5  | 135 | Male              | 1.17        | 2   | NC*    |
| Female              | 3.23           | 1  | NC* | Female            | 3.31        | 3   | NC*    |
| Total               | 6.93           | 6  | 87  | Total             | 4.47        | 5   | 112    |
| Liver and Intrahepa | tic Bile Ducts |    |     | Uteri, Corpus and | Uterus, NOS |     |        |
| Male                | 1.75           | 3  | NC* |                   |             |     |        |
| Female              | 0.80           | 0  | NC* | Female            | 10.41       | 18  | 173 #+ |
| Total               | 2.55           | 3  | NC* |                   |             |     |        |
| Lung and Bronchus   | <u> </u>       |    |     | All Sites / Types |             |     |        |
| Male                | 25.03          | 27 | 108 | Male              | 160.07      | 177 | 111    |
| Female              | 21.78          | 29 | 133 | Female            | 173.23      | 192 | 111    |
| Total               | 46.81          | 56 | 120 | Total             | 333.30      | 369 | 111    |

**Obs** = observed case count

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- ~ indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level

Amherst
Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                     | <u>Exp</u>             | <u>Obs</u>    | <u>SIR</u> |                         | <u>Exp</u> | <u>Obs</u> | <u>SIR</u> |  |
|---------------------|------------------------|---------------|------------|-------------------------|------------|------------|------------|--|
| Bladder, Urinary    |                        |               |            | Melanoma of Skin        |            |            |            |  |
| Male                | 10.56                  | 5             | 47         | Male                    | 9.19       | 6          | 65         |  |
| Female              | 4.19                   | 3             | NC*        | Female                  | 8.30       | 4          | NC*        |  |
| Total               | 14.75                  | 8             | 54         | Total                   | 17.49      | 10         | 57         |  |
| Brain and Other Cer | <u>ntral Nervous S</u> | <u>System</u> |            | Multiple Myeloma        |            |            |            |  |
| Male                | 5.61                   | 3             | NC*        | Male                    | 2.03       | 2          | NC*        |  |
| Female              | 4.44                   | 2             | NC*        | Female                  | 1.94       | 1          | NC*        |  |
| Total               | 10.04                  | 5             | 50         | Total                   | 3.97       | 3          | NC*        |  |
| <u>Breast</u>       |                        |               |            | Non-Hodgkin's Ly        | mphoma     |            |            |  |
| Male                | 0.72                   | 0             | NC*        | Male                    | 12.08      | 4          | NC*        |  |
| Female              | 86.22                  | 66            | 77 #-      | Female                  | 9.55       | 8          | 84         |  |
| Total               | 86.94                  | 66            | 76 #-      | Total                   | 21.63      | 12         | 55 #-      |  |
| Cervix Uteri        |                        |               |            | Oral Cavity and Pharynx |            |            |            |  |
|                     |                        |               |            | Male                    | 8.41       | 3          | NC*        |  |
| Female              | 7.68                   | 1             | NC*        | Female                  | 3.92       | 4          | NC*        |  |
|                     |                        |               |            | Total                   | 12.33      | 7          | 57         |  |
| Colon / Rectum      |                        |               |            | <u>Ovary</u>            |            |            |            |  |
| Male                | 26.94                  | 21            | 78         |                         |            |            |            |  |
| Female              | 26.45                  | 24            | 91         | Female                  | 10.94      | 10         | 91         |  |
| Total               | 53.39                  | 45            | 84         |                         |            |            |            |  |
| <b>Esophagus</b>    |                        |               |            | <u>Pancreas</u>         |            |            |            |  |
| Male                | 4.02                   | 2             | NC*        | Male                    | 4.35       | 4          | NC*        |  |
| Female              | 1.31                   | 1             | NC*        | Female                  | 4.49       | 1          | NC*        |  |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

| Total               | 5.33           | 3  | NC*   | Total             | 8.84        | 5   | 57    |
|---------------------|----------------|----|-------|-------------------|-------------|-----|-------|
| Hodgkin's Disease   |                |    |       | <b>Prostate</b>   |             |     |       |
| Male                | 4.14           | 1  | NC*   | Male              | 61.46       | 73  | 119   |
| Female              | 3.18           | 3  | NC*   |                   |             |     |       |
| Total               | 7.32           | 4  | NC*   |                   |             |     |       |
| Kidney and Renal P  | <u>elvis</u>   |    |       | <b>Stomach</b>    |             |     |       |
| Male                | 7.23           | 3  | NC*   | Male              | 4.76        | 1   | NC*   |
| Female              | 4.56           | 1  | NC*   | Female            | 2.98        | 0   | NC*   |
| Total               | 11.78          | 4  | NC*   | Total             | 7.75        | 1   | NC*   |
| <u>Larynx</u>       |                |    |       | <u>Testis</u>     |             |     |       |
| Male                | 3.87           | 1  | NC*   | Male              | 7.50        | 2   | NC*   |
| Female              | 1.07           | 0  | NC*   |                   |             |     |       |
| Total               | 4.94           | 1  | NC*   |                   |             |     |       |
| <u>Leukemia</u>     |                |    |       | <u>Thyroid</u>    |             |     |       |
| Male                | 6.52           | 3  | NC*   | Male              | 2.64        | 1   | NC*   |
| Female              | 5.39           | 3  | NC*   | Female            | 7.74        | 2   | NC*   |
| Total               | 11.91          | 6  | 50    | Total             | 10.38       | 3   | NC*   |
| Liver and Intrahepa | tic Bile Ducts |    |       | Uteri, Corpus and | Uterus, NOS |     |       |
| Male                | 2.63           | 0  | NC*   |                   |             |     |       |
| Female              | 1.04           | 2  | NC*   | Female            | 15.06       | 13  | 86    |
| Total               | 3.67           | 2  | NC*   |                   |             |     |       |
| Lung and Bronchus   | <u>S</u>       |    |       | All Sites / Types |             |     |       |
| Male                | 34.27          | 17 | 50 ~- | Male              | 238.07      | 170 | 71 ^- |
| Female              | 28.58          | 18 | 63 #- | Female            | 257.20      | 178 | 69 ^- |
| Total               | 62.86          | 35 | 56 ^- | Total             | 495.27      | 348 | 70 ^- |

**Obs** = observed case count

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- $\sim$  indicates statistical significance at the p≤0.01 level, as well as at the p≤0.05 level

**Andover**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                    | <u>Ехр</u>      | <u>Obs</u>   | <u>SIR</u> |                         | <u>Exp</u> | <u>Obs</u> | <u>SIR</u> |
|--------------------|-----------------|--------------|------------|-------------------------|------------|------------|------------|
| Bladder, Urinary   |                 |              |            | Melanoma of Skin        |            |            |            |
| Male               | 18.41           | 16           | 87         | Male                    | 12.53      | 20         | 160        |
| Female             | 6.99            | 3            | NC*        | Female                  | 9.75       | 9          | 92         |
| Total              | 25.40           | 19           | 75         | Total                   | 22.27      | 29         | 130        |
| Brain and Other Ce | ntral Nervous S | <u>ystem</u> |            | <u>Multiple Myeloma</u> |            |            |            |
| Male               | 6.62            | 10           | 151        | Male                    | 3.62       | 4          | NC*        |
| Female             | 5.14            | 4            | NC*        | Female                  | 3.31       | 1          | NC*        |
| Total              | 11.76           | 14           | 119        | Total                   | 6.93       | 5          | 72         |
| <u>Breast</u>      |                 |              |            | Non-Hodgkin's Lyr       | mphoma     |            |            |
| Male               | 1.23            | 2            | NC*        | Male                    | 15.44      | 19         | 123        |
| Female             | 127.03          | 134          | 105        | Female                  | 13.49      | 11         | 82         |
| Total              | 128.26          | 136          | 106        | Total                   | 28.93      | 30         | 104        |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

| Cervix Uteri       |                 |    |        | Oral Cavity and P | <u>harynx</u> |     |       |
|--------------------|-----------------|----|--------|-------------------|---------------|-----|-------|
|                    |                 |    |        | Male              | 13.59         | 10  | 74    |
| Female             | 7.68            | 7  | 91     | Female            | 6.04          | 6   | 99    |
|                    |                 |    |        | Total             | 19.63         | 16  | 82    |
| Colon / Rectum     |                 |    |        | <u>Ovary</u>      |               |     |       |
| Male               | 46.68           | 38 | 81     |                   |               |     |       |
| Female             | 43.52           | 58 | 133 #+ | Female            | 14.92         | 17  | 114   |
| Total              | 90.20           | 96 | 106    |                   |               |     |       |
| <b>Esophagus</b>   |                 |    |        | <u>Pancreas</u>   |               |     |       |
| Male               | 7.36            | 6  | 81     | Male              | 7.66          | 4   | NC*   |
| Female             | 2.21            | 2  | NC*    | Female            | 7.61          | 11  | 145   |
| Total              | 9.58            | 8  | 84     | Total             | 15.27         | 15  | 98    |
| Hodgkin's Disease  | !               |    |        | <u>Prostate</u>   |               |     |       |
| Male               | 2.97            | 6  | 202    | Male              | 119.46        | 112 | 94    |
| Female             | 2.40            | 2  | NC*    |                   |               |     |       |
| Total              | 5.37            | 8  | 149    |                   |               |     |       |
| Kidney and Renal I | <u>Pelvis</u>   |    |        | <b>Stomach</b>    |               |     |       |
| Male               | 11.83           | 11 | 93     | Male              | 7.90          | 7   | 89    |
| Female             | 7.11            | 5  | 70     | Female            | 4.66          | 4   | NC*   |
| Total              | 18.94           | 16 | 84     | Total             | 12.56         | 11  | 88    |
| <u>Larynx</u>      |                 |    |        | <u>Testis</u>     |               |     |       |
| Male               | 6.99            | 4  | NC*    | Male              | 4.28          | 8   | 187   |
| Female             | 1.89            | 1  | NC*    |                   |               |     |       |
| Total              | 8.88            | 5  | 56     |                   |               |     |       |
| <u>Leukemia</u>    |                 |    |        | <u>Thyroid</u>    |               |     |       |
| Male               | 8.39            | 7  | 83     | Male              | 2.60          | 2   | NC*   |
| Female             | 6.54            | 5  | 76     | Female            | 6.80          | 8   | 118   |
| Total              | 14.93           | 12 | 80     | Total             | 9.40          | 10  | 106   |
| Liver and Intrahep | atic Bile Ducts |    |        | Uteri, Corpus and | l Uterus, NOS |     |       |
| Male               | 4.33            | 1  | NC*    | •                 |               |     |       |
| Female             | 1.65            | 2  | NC*    | Female            | 24.62         | 30  | 122   |
| Total              | 5.98            | 3  | NC*    |                   |               |     |       |
| Lung and Bronchu   | <u>IS</u>       |    |        | All Sites / Types |               |     |       |
| Male               | 62.40           | 38 | 61 ~-  | Male              | 390.01        | 341 | 87 #- |
| Female             | 49.24           | 42 | 85     | Female            | 378.62        | 388 | 102   |
| Total              | 111.63          | 80 | 72 ~-  | Total             | 768.63        | 729 | 95    |
|                    |                 |    |        |                   |               |     |       |

**Obs** = observed case count

SIR = standardized incidence ratio [ Obs / Exp ) X 100 ]

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- ~ indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level
- ^ indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

## Aquinnah

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                  | <u>Exp</u> | <u>Obs</u> | <u>SIR</u> |                  | <u>Exp</u> | <u>Obs</u> | SIR |
|------------------|------------|------------|------------|------------------|------------|------------|-----|
| Bladder, Urinary |            |            |            | Melanoma of Skin |            |            |     |

| Male                 | 0.23              | 0           | NC* | Male                | 0.12                | 0 | NC* |
|----------------------|-------------------|-------------|-----|---------------------|---------------------|---|-----|
| Female               | 0.08              | 0           | NC* | Female              | 0.08                | 1 | NC* |
| Total                | 0.30              | 0           | NC* | Total               | 0.20                | 1 | NC* |
| Brain and Other Cen  | ntral Nervous Sys | <u>stem</u> |     | Multiple Myeloma    |                     |   |     |
| Male                 | 0.06              | 0           | NC* | Male                | 0.04                | 0 | NC* |
| Female               | 0.04              | 0           | NC* | Female              | 0.03                | 0 | NC* |
| Total                | 0.10              | 0           | NC* | Total               | 0.07                | 0 | NC* |
| <u>Breast</u>        |                   |             |     | Non-Hodgkin's Lyr   | <u>nphoma</u>       |   |     |
| Male                 | 0.01              | 0           | NC* | Male                | 0.15                | 0 | NC* |
| Female               | 1.07              | 0           | NC* | Female              | 0.13                | 0 | NC* |
| Total                | 1.08              | 0           | NC* | Total               | 0.28                | 0 | NC* |
| Cervix Uteri         |                   |             |     | Oral Cavity and Pha | <u>arynx</u>        |   |     |
|                      |                   |             |     | Male                | 0.13                | 0 | NC* |
| Female               | 0.05              | 0           | NC* | Female              | 0.05                | 0 | NC* |
|                      |                   |             |     | Total               | 0.18                | 0 | NC* |
| Colon / Rectum       |                   |             |     | <u>Ovary</u>        |                     |   |     |
| Male                 | 0.57              | 2           | NC* |                     |                     |   |     |
| Female               | 0.48              | 0           | NC* | Female              | 0.12                | 0 | NC* |
| Total                | 1.05              | 2           | NC* |                     |                     |   |     |
| <u>Esophagus</u>     |                   |             |     | <u>Pancreas</u>     |                     |   |     |
| Male                 | 0.08              | 0           | NC* | Male                | 0.09                | 0 | NC* |
| Female               | 0.02              | 0           | NC* | Female              | 80.0                | 0 | NC* |
| Total                | 0.10              | 0           | NC* | Total               | 0.17                | 0 | NC* |
| Hodgkin's Disease    |                   |             |     | <u>Prostate</u>     |                     |   |     |
| Male                 | 0.02              | 0           | NC* | Male                | 1.40                | 1 | NC* |
| Female               | 0.02              | 0           | NC* |                     |                     |   |     |
| Total                | 0.03              | 0           | NC* |                     |                     |   |     |
| Kidney and Renal Po  | <u>elvis</u>      |             |     | <b>Stomach</b>      |                     |   |     |
| Male                 | 0.12              | 0           | NC* | Male                | 0.09                | 0 | NC* |
| Female               | 0.06              | 0           | NC* | Female              | 0.05                | 0 | NC* |
| Total                | 0.19              | 0           | NC* | Total               | 0.14                | 0 | NC* |
| <u>Larynx</u>        |                   |             |     | <u>Testis</u>       |                     |   |     |
| Male                 | 0.07              | 0           | NC* | Male                | 0.02                | 0 | NC* |
| Female               | 0.02              | 0           | NC* |                     |                     |   |     |
| Total                | 0.09              | 0           | NC* |                     |                     |   |     |
| <u>Leukemia</u>      |                   |             |     | <u>Thyroid</u>      |                     |   |     |
| Male                 | 0.08              | 0           | NC* | Male                | 0.02                | 0 | NC* |
| Female               | 0.06              | 2           | NC* | Female              | 0.05                | 0 | NC* |
| Total                | 0.14              | 2           | NC* | Total               | 0.06                | 0 | NC* |
| Liver and Intrahepat | tic Bile Ducts    |             |     | Uteri, Corpus and I | <u> Uterus, NOS</u> |   |     |
| Male                 | 0.04              | 0           | NC* |                     |                     |   |     |
| Female               | 0.02              | 0           | NC* | Female              | 0.21                | 0 | NC* |
| Total                | 0.06              | 0           | NC* |                     |                     |   |     |
| Lung and Bronchus    | <u>i</u>          |             |     | All Sites / Types   |                     |   |     |
| Male                 | 0.72              | 0           | NC* | Male                | 4.35                | 4 | NC* |
| Female               | 0.46              | 0           | NC* | Female              | 3.43                | 4 | NC* |
| Total                | 1.18              | 0           | NC* | Total               | 7.78                | 8 | 103 |
|                      |                   |             |     |                     |                     |   |     |

**Obs** = observed case count

<sup>\* =</sup> **SIR** and statistical significance not calculated when **Obs** < 5

- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the p≤0.05 level
- $\sim$  indicates statistical significance at the **p** $\leq$ 0.01 level, as well as at the **p** $\leq$ 0.05 level

**Arlington**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                     | <u>Exp</u>        | <u>Obs</u>   | <u>SIR</u> |                    | <u>Exp</u>    | <u>Obs</u> | <u>SIR</u> |
|---------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------|
| Bladder, Urinary    |                   |              |            | Melanoma of Skin   |               |            |            |
| Male                | 30.56             | 19           | 62 #-      | Male               | 18.13         | 28         | 154 #+     |
| Female              | 14.67             | 17           | 116        | Female             | 16.18         | 22         | 136        |
| Total               | 45.23             | 36           | 80         | Total              | 34.31         | 50         | 146 #+     |
| Brain and Other Ce  | entral Nervous Sy | <u>rstem</u> |            | Multiple Myeloma   |               |            |            |
| Male                | 9.13              | 13           | 142        | Male               | 5.62          | 7          | 125        |
| Female              | 8.44              | 12           | 142        | Female             | 6.16          | 5          | 81         |
| Total               | 17.57             | 25           | 142        | Total              | 11.78         | 12         | 102        |
| <u>Breast</u>       |                   |              |            | Non-Hodgkin's Ly   | mphoma        |            |            |
| Male                | 1.90              | 2            | NC*        | Male               | 23.16         | 28         | 121        |
| Female              | 207.28            | 257          | 124 ^+     | Female             | 25.48         | 26         | 102        |
| Total               | 209.19            | 259          | 124 ^+     | Total              | 48.64         | 54         | 111        |
| Cervix Uteri        |                   |              |            | Oral Cavity and Ph | <u>narynx</u> |            |            |
|                     |                   |              |            | Male               | 18.26         | 15         | 82         |
| Female              | 11.89             | 7            | 59         | Female             | 10.55         | 12         | 114        |
|                     |                   |              |            | Total              | 28.82         | 27         | 94         |
| Colon / Rectum      |                   |              |            | <u>Ovary</u>       |               |            |            |
| Male                | 76.47             | 80           | 105        |                    |               |            |            |
| Female              | 92.40             | 98           | 106        | Female             | 24.08         | 22         | 91         |
| Total               | 168.87            | 178          | 105        |                    |               |            |            |
| <b>Esophagus</b>    |                   |              |            | <u>Pancreas</u>    |               |            |            |
| Male                | 10.61             | 5            | 47         | Male               | 11.78         | 8          | 68         |
| Female              | 4.79              | 4            | NC*        | Female             | 15.92         | 12         | 75         |
| Total               | 15.41             | 9            | 58         | Total              | 27.70         | 20         | 72         |
| Hodgkin's Disease   |                   |              |            | <u>Prostate</u>    |               |            |            |
| Male                | 4.32              | 4            | NC*        | Male               | 179.60        | 183        | 102        |
| Female              | 3.98              | 5            | 126        |                    |               |            |            |
| Total               | 8.29              | 9            | 109        |                    |               |            |            |
| Kidney and Renal F  | <u>Pelvis</u>     |              |            | <b>Stomach</b>     |               |            |            |
| Male                | 16.77             | 20           | 119        | Male               | 12.77         | 15         | 117        |
| Female              | 12.59             | 11           | 87         | Female             | 10.00         | 6          | 60         |
| Total               | 29.36             | 31           | 106        | Total              | 22.77         | 21         | 92         |
| <u>Larynx</u>       |                   |              |            | <u>Testis</u>      |               |            |            |
| Male                | 9.60              | 10           | 104        | Male               | 6.62          | 9          | 136        |
| Female              | 2.99              | 0            | NC*        |                    |               |            |            |
| Total               | 12.59             | 10           | 79         |                    |               |            |            |
| <u>Leukemia</u>     |                   |              |            | <u>Thyroid</u>     |               |            |            |
| Male                | 12.52             | 12           | 96         | Male               | 3.52          | 3          | NC*        |
| Female              | 11.70             | 12           | 103        | Female             | 10.51         | 16         | 152        |
| Total               | 24.21             | 24           | 99         | Total              | 14.02         | 19         | 135        |
| Liver and Intrahepa | atic Bile Ducts   |              |            | Uteri, Corpus and  | Uterus, NOS   |            |            |
| Male                | 6.22              | 6            | 96         | -                  |               |            |            |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

| Female            | 3.28     | 6   | 183   | Female            | 39.60   | 38   | 96  |
|-------------------|----------|-----|-------|-------------------|---------|------|-----|
| Total             | 9.50     | 12  | 126   |                   |         |      |     |
| Lung and Bronchus | <u>S</u> |     |       | All Sites / Types |         |      |     |
| Male              | 95.21    | 93  | 98    | Male              | 593.36  | 606  | 102 |
| Female            | 87.76    | 59  | 67 ~- | Female            | 671.51  | 699  | 104 |
| Total             | 182.97   | 152 | 83 #- | Total             | 1264.88 | 1305 | 103 |

**Obs** = observed case count

- \* = SIR and statistical significance not calculated when Obs < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- $\sim$  indicates statistical significance at the **p** $\leq$ 0.01 level, as well as at the **p** $\leq$ 0.05 level
- ^ indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

**Ashburnham**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                          | <u>Exp</u>     | <u>Obs</u> | <u>SIR</u> |                    | <u>Exp</u>   | <u>Obs</u> | SIR |
|--------------------------|----------------|------------|------------|--------------------|--------------|------------|-----|
| Bladder, Urinary         | <del></del>    |            |            | Melanoma of Skin   | <del></del>  |            |     |
| Male                     | 3.08           | 5          | 162        | Male               | 2.21         | 0          | NC* |
| Female                   | 0.98           | 0          | NC*        | Female             | 1.57         | 2          | NC* |
| Total                    | 4.06           | 5          | 123        | Total              | 3.78         | 2          | NC* |
| Brain and Other Cen      | tral Nervous S | ystem      |            | Multiple Myeloma   |              |            |     |
| Male                     | 1.20           | 0          | NC*        | Male               | 0.61         | 0          | NC* |
| Female                   | 0.83           | 0          | NC*        | Female             | 0.47         | 0          | NC* |
| Total                    | 2.03           | 0          | NC*        | Total              | 1.08         | 0          | NC* |
| <u>Breast</u>            |                |            |            | Non-Hodgkin's Ly   | mphoma       |            |     |
| Male                     | 0.21           | 0          | NC*        | Male               | 2.74         | 0          | NC* |
| Female                   | 19.11          | 18         | 94         | Female             | 2.01         | 2          | NC* |
| Total                    | 19.32          | 18         | 93         | Total              | 4.75         | 2          | NC* |
| Cervix Uteri             |                |            |            | Oral Cavity and Ph | <u>arynx</u> |            |     |
|                          |                |            |            | Male               | 2.35         | 0          | NC* |
| Female                   | 1.32           | 0          | NC*        | Female             | 0.89         | 0          | NC* |
|                          |                |            |            | Total              | 3.24         | 0          | NC* |
| Colon / Rectum           |                |            |            | <u>Ovary</u>       |              |            |     |
| Male                     | 7.80           | 5          | 64         |                    |              |            |     |
| Female                   | 6.09           | 4          | NC*        | Female             | 2.30         | 1          | NC* |
| Total                    | 13.90          | 9          | 65         |                    |              |            |     |
| <u>Esophagus</u>         |                |            |            | <u>Pancreas</u>    |              |            |     |
| Male                     | 1.24           | 1          | NC*        | Male               | 1.29         | 1          | NC* |
| Female                   | 0.31           | 0          | NC*        | Female             | 1.06         | 3          | NC* |
| Total                    | 1.54           | 1          | NC*        | Total              | 2.35         | 4          | NC* |
| <u>Hodgkin's Disease</u> |                |            |            | <u>Prostate</u>    |              |            |     |
| Male                     | 0.60           | 0          | NC*        | Male               | 19.63        | 16         | 82  |
| Female                   | 0.46           | 1          | NC*        |                    |              |            |     |
| Total                    | 1.06           | 1          | NC*        |                    |              |            |     |
| Kidney and Renal Po      |                |            |            | <b>Stomach</b>     |              |            |     |
| Male                     | 2.03           | 1          | NC*        | Male               | 1.34         | 1          | NC* |
| Female                   | 1.04           | 2          | NC*        | Female             | 0.66         | 0          | NC* |

| Total              | 3.07                             | 3  | NC* | Total             | 2.00        | 1  | NC*   |
|--------------------|----------------------------------|----|-----|-------------------|-------------|----|-------|
| <u>Larynx</u>      |                                  |    |     | <u>Testis</u>     |             |    |       |
| Male               | 1.18                             | 1  | NC* | Male              | 0.92        | 0  | NC*   |
| Female             | 0.27                             | 0  | NC* |                   |             |    |       |
| Total              | 1.45                             | 1  | NC* |                   |             |    |       |
| <u>Leukemia</u>    |                                  |    |     | <u>Thyroid</u>    |             |    |       |
| Male               | 1.50                             | 0  | NC* | Male              | 0.49        | 2  | NC*   |
| Female             | 1.03                             | 3  | NC* | Female            | 1.22        | 0  | NC*   |
| Total              | 2.52                             | 3  | NC* | Total             | 1.71        | 2  | NC*   |
| Liver and Intrahep | iver and Intrahepatic Bile Ducts |    |     | Uteri, Corpus and | Uterus, NOS |    |       |
| Male               | 0.74                             | 1  | NC* |                   |             |    |       |
| Female             | 0.24                             | 0  | NC* | Female            | 3.61        | 0  | NC*   |
| Total              | 0.97                             | 1  | NC* |                   |             |    |       |
| Lung and Bronchu   | <u>IS</u>                        |    |     | All Sites / Types |             |    |       |
| Male               | 10.38                            | 4  | NC* | Male              | 66.05       | 44 | 67 ~- |
| Female             | 7.03                             | 6  | 85  | Female            | 56.33       | 43 | 76    |
| Total              | 17.42                            | 10 | 57  | Total             | 122.37      | 87 | 71 ^- |

**Obs** = observed case count

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- ~ indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level

**Ashby**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|                    | <u>Exp</u>              | <u>Obs</u>   | <u>SIR</u> |                     | <u>Ехр</u>    | <u>Obs</u> | <u>SIR</u> |
|--------------------|-------------------------|--------------|------------|---------------------|---------------|------------|------------|
| Bladder, Urinary   |                         |              |            | Melanoma of Skin    |               |            |            |
| Male               | 1.51                    | 2            | NC*        | Male                | 1.01          | 0          | NC*        |
| Female             | 0.50                    | 1            | NC*        | Female              | 0.72          | 0          | NC*        |
| Total              | 2.01                    | 3            | NC*        | Total               | 1.73          | 0          | NC*        |
| Brain and Other Co | <u>entral Nervous S</u> | <u>ystem</u> |            | Multiple Myeloma    |               |            |            |
| Male               | 0.54                    | 3            | NC*        | Male                | 0.29          | 0          | NC*        |
| Female             | 0.39                    | 1            | NC*        | Female              | 0.24          | 0          | NC*        |
| Total              | 0.93                    | 4            | NC*        | Total               | 0.53          | 0          | NC*        |
| <u>Breast</u>      |                         |              |            | Non-Hodgkin's Lyn   | <u>nphoma</u> |            |            |
| Male               | 0.10                    | 0            | NC*        | Male                | 1.26          | 0          | NC*        |
| Female             | 9.12                    | 10           | 110        | Female              | 0.99          | 1          | NC*        |
| Total              | 9.21                    | 10           | 109        | Total               | 2.25          | 1          | NC*        |
| Cervix Uteri       |                         |              |            | Oral Cavity and Pha | <u>arynx</u>  |            |            |
|                    |                         |              |            | Male                | 1.08          | 2          | NC*        |
| Female             | 0.58                    | 0            | NC*        | Female              | 0.43          | 0          | NC*        |
|                    |                         |              |            | Total               | 1.51          | 2          | NC*        |
| Colon / Rectum     |                         |              |            | <u>Ovary</u>        |               |            |            |
| Male               | 3.82                    | 7            | 183        |                     |               |            |            |
| Female             | 3.11                    | 5            | 161        | Female              | 1.08          | 1          | NC*        |
| Total              | 6.93                    | 12           | 173        |                     |               |            |            |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

| <u>Esophagus</u>         |                |   |     | <u>Pancreas</u>               |       |    |     |  |
|--------------------------|----------------|---|-----|-------------------------------|-------|----|-----|--|
| Male                     | 0.59           | 0 | NC* | Male                          | 0.62  | 0  | NC* |  |
| Female                   | 0.16           | 0 | NC* | Female                        | 0.55  | 0  | NC* |  |
| Total                    | 0.75           | 0 | NC* | Total                         | 1.17  | 0  | NC* |  |
| <u>Hodgkin's Disease</u> |                |   |     | <u>Prostate</u>               |       |    |     |  |
| Male                     | 0.26           | 0 | NC* | Male                          | 9.69  | 10 | 103 |  |
| Female                   | 0.19           | 1 | NC* |                               |       |    |     |  |
| Total                    | 0.45           | 1 | NC* |                               |       |    |     |  |
| Kidney and Renal P       | <u>'elvis</u>  |   |     | Stomach .                     |       |    |     |  |
| Male                     | 0.95           | 1 | NC* | Male                          | 0.64  | 0  | NC* |  |
| Female                   | 0.52           | 0 | NC* | Female                        | 0.33  | 1  | NC* |  |
| Total                    | 1.46           | 1 | NC* | Total                         | 0.98  | 1  | NC* |  |
| <u>Larynx</u>            |                |   |     | <u>Testis</u>                 |       |    |     |  |
| Male                     | 0.56           | 1 | NC* | Male                          | 0.37  | 0  | NC* |  |
| Female                   | 0.14           | 0 | NC* |                               |       |    |     |  |
| Total                    | 0.69           | 1 | NC* |                               |       |    |     |  |
| <u>Leukemia</u>          |                |   |     | <u>Thyroid</u>                |       |    |     |  |
| Male                     | 0.69           | 0 | NC* | Male                          | 0.21  | 2  | NC* |  |
| Female                   | 0.49           | 0 | NC* | Female                        | 0.52  | 0  | NC* |  |
| Total                    | 1.19           | 0 | NC* | Total                         | 0.73  | 2  | NC* |  |
| Liver and Intrahepa      | tic Bile Ducts |   |     | Uteri, Corpus and Uterus, NOS |       |    |     |  |
| Male                     | 0.35           | 0 | NC* |                               |       |    |     |  |
| Female                   | 0.12           | 0 | NC* | Female                        | 1.76  | 3  | NC* |  |
| Total                    | 0.47           | 0 | NC* |                               |       |    |     |  |
| Lung and Bronchu         | <u>s</u>       |   |     | All Sites / Types             |       |    |     |  |
| Male                     | 5.06           | 4 | NC* | Male                          | 31.73 | 33 | 104 |  |
| Female                   | 3.57           | 3 | NC* | Female                        | 27.37 | 29 | 106 |  |
| Total                    | 8.62           | 7 | 81  | Total                         | 59.10 | 62 | 105 |  |

**Obs** = observed case count

- \* = SIR and statistical significance not calculated when Obs < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- $\sim$  indicates statistical significance at the  $p{\le}0.01$  level, as well as at the  $p{\le}0.05$  level

**Ashfield**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|  | <u>Exp</u> | <u>Obs</u> | <u>SIR</u> |                   | <u>Exp</u> | <u>Obs</u> | <u>SIR</u> |  |
|--|------------|------------|------------|-------------------|------------|------------|------------|--|
| Bladder, Urinary                       |            |            |            | Melanoma of Skin  |            |            |            |  |
| Male                                   | 1.34       | 4          | NC*        | Male              | 0.80       | 1          | NC*        |  |
| Female                                 | 0.39       | 0          | NC*        | Female            | 0.54       | 2          | NC*        |  |
| Total                                  | 1.73       | 4          | NC*        | Total             | 1.34       | 3          | NC*        |  |
| Brain and Other Central Nervous System |            |            |            | Multiple Myeloma  |            |            |            |  |
| Male                                   | 0.40       | 0          | NC*        | Male              | 0.25       | 0          | NC*        |  |
| Female                                 | 0.29       | 0          | NC*        | Female            | 0.18       | 0          | NC*        |  |
| Total                                  | 0.68       | 0          | NC*        | Total             | 0.43       | 0          | NC*        |  |
| <u>Breast</u>                          |            |            |            | Non-Hodgkin's Lyn | nphoma     |            |            |  |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

| Male                | 0.08           | 0  | NC* | Male                          | 1.01          | 0  | NC* |  |
|---------------------|----------------|----|-----|-------------------------------|---------------|----|-----|--|
| Female              | 6.87           | 11 | 160 | Female                        | 0.75          | 0  | NC* |  |
| Total               | 6.95           | 11 | 158 | Total                         | 1.76          | 0  | NC* |  |
| Cervix Uteri        |                |    |     | Oral Cavity and Ph            | <u>iarynx</u> |    |     |  |
|                     |                |    |     | Male                          | 0.82          | 0  | NC* |  |
| Female              | 0.43           | 0  | NC* | Female                        | 0.33          | 0  | NC* |  |
|                     |                |    |     | Total                         | 1.15          | 0  | NC* |  |
| Colon / Rectum      |                |    |     | <u>Ovary</u>                  |               |    |     |  |
| Male                | 3.28           | 4  | NC* |                               |               |    |     |  |
| Female              | 2.44           | 4  | NC* | Female                        | 0.81          | 2  | NC* |  |
| Total               | 5.72           | 8  | 140 |                               |               |    |     |  |
| <u>Esophagus</u>    |                |    |     | <u>Pancreas</u>               |               |    |     |  |
| Male                | 0.46           | 0  | NC* | Male                          | 0.51          | 1  | NC* |  |
| Female              | 0.12           | 1  | NC* | Female                        | 0.43          | 0  | NC* |  |
| Total               | 0.59           | 1  | NC* | Total                         | 0.94          | 1  | NC* |  |
| Hodgkin's Disease   |                |    |     | <u>Prostate</u>               |               |    |     |  |
| Male                | 0.17           | 0  | NC* | Male                          | 7.43          | 5  | 67  |  |
| Female              | 0.14           | 0  | NC* |                               |               |    |     |  |
| Total               | 0.31           | 0  | NC* |                               |               |    |     |  |
| Kidney and Renal P  | <u>elvis</u>   |    |     | <b>Stomach</b>                |               |    |     |  |
| Male                | 0.74           | 1  | NC* | Male                          | 0.57          | 0  | NC* |  |
| Female              | 0.39           | 0  | NC* | Female                        | 0.26          | 0  | NC* |  |
| Total               | 1.13           | 1  | NC* | Total                         | 0.83          | 0  | NC* |  |
| <u>Larynx</u>       |                |    |     | <u>Testis</u>                 |               |    |     |  |
| Male                | 0.42           | 0  | NC* | Male                          | 0.24          | 0  | NC* |  |
| Female              | 0.10           | 1  | NC* |                               |               |    |     |  |
| Total               | 0.52           | 1  | NC* |                               |               |    |     |  |
| <u>Leukemia</u>     |                |    |     | <u>Thyroid</u>                |               |    |     |  |
| Male                | 0.56           | 0  | NC* | Male                          | 0.15          | 0  | NC* |  |
| Female              | 0.36           | 0  | NC* | Female                        | 0.38          | 0  | NC* |  |
| Total               | 0.93           | 0  | NC* | Total                         | 0.53          | 0  | NC* |  |
| Liver and Intrahepa | tic Bile Ducts |    |     | Uteri, Corpus and Uterus, NOS |               |    |     |  |
| Male                | 0.27           | 0  | NC* |                               |               |    |     |  |
| Female              | 0.09           | 0  | NC* | Female                        | 1.32          | 1  | NC* |  |
| Total               | 0.36           | 0  | NC* |                               |               |    |     |  |
| Lung and Bronchus   | <u>i</u>       |    |     | All Sites / Types             |               |    |     |  |
| Male                | 4.02           | 5  | 124 | Male                          | 25.32         | 24 | 95  |  |
| Female              | 2.69           | 1  | NC* | Female                        | 20.75         | 25 | 120 |  |
| Total               | 6.70           | 6  | 89  | Total                         | 46.07         | 49 | 106 |  |

**Obs** = observed case count

SIR = standardized incidence ratio [ Obs / Exp ) X 100 ]

## **Ashland**

 $<sup>^{\</sup>star}$  = SIR and statistical significance not calculated when Obs < 5

<sup>+</sup> indicates number of observed cases is statistically significantly higher than the expected number of cases

<sup>-</sup> indicates number of observed cases is statistically significantly lower than the expected number of cases

<sup>#</sup> indicates statistical significance at the  $p \le 0.05$  level

<sup>~</sup> indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

|                            | <u>Exp</u>      | <u>Obs</u>   | <u>SIR</u> |                   | <u>Exp</u>        | <u>Obs</u> | <u>SIR</u> |
|----------------------------|-----------------|--------------|------------|-------------------|-------------------|------------|------------|
| Bladder, Urinary           |                 |              |            | Melanoma of Skir  | <u>1</u>          |            |            |
| Male                       | 7.05            | 4            | NC*        | Male              | 4.87              | 8          | 164        |
| Female                     | 2.59            | 3            | NC*        | Female            | 3.85              | 9          | 234 #+     |
| Total                      | 9.63            | 7            | 73         | Total             | 8.72              | 17         | 195 #+     |
| <b>Brain and Other Cer</b> | ntral Nervous S | <u>ystem</u> |            | Multiple Myeloma  |                   |            |            |
| Male                       | 2.62            | 2            | NC*        | Male              | 1.36              | 2          | NC*        |
| Female                     | 2.04            | 3            | NC*        | Female            | 1.21              | 2          | NC*        |
| Total                      | 4.66            | 5            | 107        | Total             | 2.58              | 4          | NC*        |
| <u>Breast</u>              |                 |              |            | Non-Hodgkin's Ly  | <u>ymphoma</u>    |            |            |
| Male                       | 0.47            | 0            | NC*        | Male              | 6.12              | 10         | 163        |
| Female                     | 47.50           | 49           | 103        | Female            | 5.17              | 0          | NC*        |
| Total                      | 47.96           | 49           | 102        | Total             | 11.30             | 10         | 89         |
| Cervix Uteri               |                 |              |            | Oral Cavity and P | <u>harynx</u>     |            |            |
|                            |                 |              |            | Male              | 5.03              | 7          | 139        |
| Female                     | 3.18            | 8            | 252 #+     | Female            | 2.24              | 0          | NC*        |
|                            |                 |              |            | Total             | 7.27              | 7          | 96         |
| Colon / Rectum             |                 |              |            | <u>Ovary</u>      |                   |            |            |
| Male                       | 17.82           | 20           | 112        | <del></del>       |                   |            |            |
| Female                     | 16.15           | 20           | 124        | Female            | 5.68              | 7          | 123        |
| Total                      | 33.97           | 40           | 118        |                   |                   |            |            |
| <u>Esophagus</u>           |                 |              |            | <u>Pancreas</u>   |                   |            |            |
| Male                       | 2.70            | 3            | NC*        | Male              | 2.87              | 4          | NC*        |
| Female                     | 0.82            | 0            | NC*        | Female            | 2.83              | 4          | NC*        |
| Total                      | 3.52            | 3            | NC*        | Total             | 5.70              | 8          | 140        |
| Hodgkin's Disease          |                 |              |            | <u>Prostate</u>   |                   |            |            |
| Male                       | 1.37            | 1            | NC*        | Male              | 43.77             | 40         | 91         |
| Female                     | 1.10            | 0            | NC*        |                   |                   |            |            |
| Total                      | 2.46            | 1            | NC*        |                   |                   |            |            |
| Kidney and Renal P         |                 |              |            | <u>Stomach</u>    |                   |            |            |
| Male                       | 4.42            | 2            | NC*        | Male              | 3.03              | 7          | 231        |
| Female                     | 2.67            | 6            | 225        | Female            | 1.74              | 3          | NC*        |
| Total                      | 7.09            | 8            | 113        | Total             | 4.77              | 10         | 210 #+     |
| <u>Larynx</u>              |                 |              |            | <u>Testis</u>     |                   |            |            |
| Male                       | 2.54            | 0            | NC*        |                   | 2.17              | 4          | NC*        |
| Female                     | 0.69            | 0            | NC*        |                   |                   |            |            |
| Total                      | 3.23            | 0            | NC*        |                   |                   |            |            |
| Leukemia                   |                 |              |            | <u>Thyroid</u>    |                   |            |            |
| Male                       | 3.31            | 3            | NC*        | Male              | 1.08              | 0          | NC*        |
| Female                     | 2.54            | 1            | NC*        | Female            | 2.93              | 0          | NC*        |
| Total                      | 5.85            | 4            | NC*        | Total             | 4.01              | 0          | NC*        |
| Liver and Intrahepa        |                 |              |            | Uteri, Corpus and |                   |            |            |
| Male                       | 1.62            | 2            | NC*        | <u> </u>          |                   |            |            |
| Female                     | 0.62            | 1            | NC*        | Female            | 9.02              | 9          | 100        |
| Total                      | 2.24            | 3            | NC*        | . 3               | - · · <del></del> | •          |            |
| Lung and Bronchus          |                 | Ŭ            |            | All Sites / Types |                   |            |            |
| Male                       | 23.22           | 19           | 82         | Male              | 147.63            | 145        | 98         |
| Female                     | 18.27           | 18           | 98         | Female            | 142.67            | 151        | 106        |
| Total                      | 41.50           | 37           | 89         | Total             | 290.29            | 296        | 102        |
| . otai                     | . 1.00          | 0,           | 0,         | iolai             | _,,               | 2,0        | 102        |

**Obs** = observed case count

- \* = **SIR** and statistical significance not calculated when **Obs** < 5
- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- $\sim$  indicates statistical significance at the p<0.01 level, as well as at the p<0.05 level
- ^ indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

**Athol** Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|  | <u>Ехр</u>   | <u>Obs</u> | <u>SIR</u>       |                    | Ехр   | <u>Obs</u> | SIR |
|--|--------------|------------|------------------|--------------------|-------|------------|-----|
| Bladder, Urinary                       |              |            |                  | Melanoma of Skin   |       |            |     |
| Male                                   | 7.86         | 15         | 191 #+           | Male               | 4.57  | 3          | NC* |
| Female                                 | 3.27         | 3          | NC*              | Female             | 3.62  | 7          | 194 |
| Total                                  | 11.12        | 18         | 162              | Total              | 8.19  | 10         | 122 |
| Brain and Other Central Nervous System |              |            | Multiple Myeloma |                    |       |            |     |
| Male                                   | 2.35         | 3          | NC*              | Male               | 1.43  | 0          | NC* |
| Female                                 | 1.96         | 2          | NC*              | Female             | 1.38  | 3          | NC* |
| Total                                  | 4.30         | 5          | 116              | Total              | 2.81  | 3          | NC* |
| <u>Breast</u>                          |              |            |                  | Non-Hodgkin's Ly   | -     |            |     |
| Male                                   | 0.49         | 0          | NC*              | Male               | 5.89  | 6          | 102 |
| Female                                 | 46.50        | 37         | 80               | Female             | 5.72  | 3          | NC* |
| Total                                  | 46.98        | 37         | 79               | Total              | 11.60 | 9          | 78  |
| Cervix Uteri                           |              |            |                  | Oral Cavity and Ph | =     |            |     |
|  |              |            |                  | Male               | 4.61  | 8          | 173 |
| Female                                 | 2.63         | 3          | NC*              | Female             | 2.37  | 3          | NC* |
|  |              |            |                  | Total              | 6.99  | 11         | 157 |
| Colon / Rectum                         |              |            |                  | <u>Ovary</u>       |       |            |     |
| Male                                   | 19.50        | 18         | 92               |                    |       |            |     |
| Female                                 | 20.61        | 23         | 112              | Female             | 5.41  | 7          | 129 |
| Total                                  | 40.11        | 41         | 102              |                    |       |            |     |
| <u>Esophagus</u>                       |              |            |                  | <u>Pancreas</u>    |       |            |     |
| Male                                   | 2.69         | 2          | NC*              | Male               | 3.01  | 1          | NC* |
| Female                                 | 1.07         | 0          | NC*              | Female             | 3.54  | 0          | NC* |
| Total                                  | 3.76         | 2          | NC*              | Total              | 6.55  | 1          | NC* |
| <u>Hodgkin's Disease</u>               |              |            |                  | <u>Prostate</u>    |       |            |     |
| Male                                   | 1.08         | 1          | NC*              | Male               | 44.97 | 33         | 73  |
| Female                                 | 0.91         | 0          | NC*              |                    |       |            |     |
| Total                                  | 1.99         | 1          | NC*              |                    |       |            |     |
| Kidney and Renal P                     | <u>elvis</u> |            |                  | <u>Stomach</u>     |       |            |     |
| Male                                   | 4.24         | 4          | NC*              | Male               | 3.29  | 4          | NC* |
| Female                                 | 2.84         | 4          | NC*              | Female             | 2.23  | 3          | NC* |
| Total                                  | 7.08         | 8          | 113              | Total              | 5.52  | 7          | 127 |
| <u>Larynx</u>                          |              |            |                  | <u>Testis</u>      |       |            |     |
| Male                                   | 2.41         | 5          | 207              | Male               | 1.56  | 2          | NC* |
| Female                                 | 0.67         | 0          | NC*              |                    |       |            |     |
| Total                                  | 3.09         | 5          | 162              |                    |       |            |     |
| <u>Leukemia</u>                        |              |            |                  | <u>Thyroid</u>     |       |            |     |
| Male                                   | 3.30         | 5          | 152              | Male               | 0.86  | 4          | NC* |
| Female                                 | 2.73         | 1          | NC*              | Female             | 2.34  | 0          | NC* |
|  |              |            |                  |                    |       |            |     |

| Total               | 6.02           | 6  | 100 | Total             | 3.20        | 4   | NC* |
|---------------------|----------------|----|-----|-------------------|-------------|-----|-----|
| Liver and Intrahepa | tic Bile Ducts |    |     | Uteri, Corpus and | Uterus, NOS |     |     |
| Male                | 1.57           | 4  | NC* |                   |             |     |     |
| Female              | 0.74           | 1  | NC* | Female            | 8.92        | 7   | 79  |
| Total               | 2.31           | 5  | 216 |                   |             |     |     |
| Lung and Bronchus   | <u> </u>       |    |     | All Sites / Types |             |     |     |
| Male                | 23.93          | 31 | 130 | Male              | 150.03      | 157 | 105 |
| Female              | 19.69          | 25 | 127 | Female            | 150.66      | 143 | 95  |
| Total               | 43.62          | 56 | 128 | Total             | 300.69      | 300 | 100 |

**Obs** = observed case count

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- + indicates number of observed cases is statistically significantly higher than the expected number of cases
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- # indicates statistical significance at the  $p \le 0.05$  level
- $\sim$  indicates statistical significance at the  $p \le 0.01$  level, as well as at the  $p \le 0.05$  level

**Attleboro**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1994 - 1998

|  | <u>Exp</u> | <u>Obs</u> | <u>SIR</u>              |                  | <u>Exp</u>    | <u>Obs</u> | <u>SIR</u> |
|--|------------|------------|-------------------------|------------------|---------------|------------|------------|
| Bladder, Urinary                       |            |            |                         | Melanoma of Skin | 1             |            |            |
| Male                                   | 22.18      | 19         | 86                      | Male             | 14.31         | 18         | 126        |
| Female                                 | 8.89       | 7          | 79                      | Female           | 11.42         | 17         | 149        |
| Total                                  | 31.07      | 26         | 84                      | Total            | 25.73         | 35         | 136        |
| Brain and Other Central Nervous System |            |            | Multiple Myeloma        |                  |               |            |            |
| Male                                   | 7.67       | 6          | 78                      | Male             | 4.18          | 8          | 192        |
| Female                                 | 6.16       | 3          | NC*                     | Female           | 3.93          | 4          | NC*        |
| Total                                  | 13.83      | 9          | 65                      | Total            | 8.11          | 12         | 148        |
| <u>Breast</u>                          |            |            |                         | Non-Hodgkin's Ly | <u>mphoma</u> |            |            |
| Male                                   | 1.42       | 0          | NC*                     | Male             | 18.25         | 15         | 82         |
| Female                                 | 142.52     | 120        | 84                      | Female           | 16.60         | 18         | 108        |
| Total                                  | 143.95     | 120        | 83 #-                   | Total            | 34.85         | 33         | 95         |
| Cervix Uteri                           |            |            | Oral Cavity and Pharynx |                  |               |            |            |
|  |            |            |                         | Male             | 14.55         | 16         | 110        |
| Female                                 | 8.94       | 9          | 101                     | Female           | 7.00          | 8          | 114        |
|  |            |            |                         | Total            | 21.55         | 24         | 111        |
| Colon / Rectum                         |            |            |                         | <u>Ovary</u>     |               |            |            |
| Male                                   | 55.81      | 64         | 115                     |                  |               |            |            |
| Female                                 | 55.83      | 66         | 118                     | Female           | 16.88         | 14         | 83         |
| Total                                  | 111.64     | 130        | 116                     |                  |               |            |            |
| <b>Esophagus</b>                       |            |            |                         | <u>Pancreas</u>  |               |            |            |
| Male                                   | 8.09       | 6          | 74                      | Male             | 8.79          | 6          | 68         |
| Female                                 | 2.87       | 3          | NC*                     | Female           | 9.67          | 16         | 165        |
| Total                                  | 10.95      | 9          | 82                      | Total            | 18.47         | 22         | 119        |
| Hodgkin's Disease                      |            |            |                         | <u>Prostate</u>  |               |            |            |
| Male                                   | 3.89       | 9          | 231 #+                  | Male             | 133.76        | 94         | 70 ^-      |
| Female                                 | 3.14       | 3          | NC*                     |                  |               |            |            |
| Total                                  | 7.04       | 12         | 171                     |                  |               |            |            |

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels

| Kidney and Renal   | <u>Pelvis</u>                     |     |        | <u>Stomach</u>                |        |     |     |
|--------------------|-----------------------------------|-----|--------|-------------------------------|--------|-----|-----|
| Male               | 13.07                             | 13  | 99     | Male                          | 9.41   | 8   | 85  |
| Female             | 8.37                              | 3   | NC*    | Female                        | 6.03   | 7   | 116 |
| Total              | 21.44                             | 16  | 75     | Total                         | 15.44  | 15  | 97  |
| <u>Larynx</u>      |                                   |     |        | <u>Testis</u>                 |        |     |     |
| Male               | 7.47                              | 10  | 134    | Male                          | 6.03   | 6   | 99  |
| Female             | 2.05                              | 2   | NC*    |                               |        |     |     |
| Total              | 9.53                              | 12  | 126    |                               |        |     |     |
| <u>Leukemia</u>    |                                   |     |        | <u>Thyroid</u>                |        |     |     |
| Male               | 10.07                             | 11  | 109    | Male                          | 3.01   | 4   | NC* |
| Female             | 8.11                              | 8   | 99     | Female                        | 8.16   | 5   | 61  |
| Total              | 18.18                             | 19  | 105    | Total                         | 11.18  | 9   | 81  |
| Liver and Intrahep | Liver and Intrahepatic Bile Ducts |     |        | Uteri, Corpus and Uterus, NOS |        |     |     |
| Male               | 4.81                              | 2   | NC*    |                               |        |     |     |
| Female             | 2.06                              | 6   | 291 #+ | Female                        | 27.10  | 27  | 100 |
| Total              | 6.88                              | 8   | 116    |                               |        |     |     |
| Lung and Bronchu   | <u>is</u>                         |     |        | All Sites / Types             |        |     |     |
| Male               | 71.00                             | 87  | 123    | Male                          | 448.99 | 455 | 101 |
| Female             | 57.50                             | 45  | 78     | Female                        | 445.82 | 433 | 97  |
| Total              | 128.49                            | 132 | 103    | Total                         | 894.82 | 888 | 99  |

**Obs** = observed case count

- + indicates number of observed cases is statistically significantly higher than the expected number of cases
- indicates number of observed cases is statistically significantly lower than the expected number of cases
- # indicates statistical significance at the  $p \le 0.05$  level
- $\sim$  indicates statistical significance at the p≤0.01 level, as well as at the p≤0.05 level

<sup>\*</sup> = SIR and statistical significance not calculated when Obs < 5

<sup>^</sup> indicates statistical significance at the  $p \le 0.001$  level, as well as at the  $p \le 0.01$  and  $p \le 0.05$  levels